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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 29 MAR 2005

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| Applicant's or agent's file reference SOWC-240010 | FOR FURTHER ACTION See Form PCT/IPEA/416 | |
| International application No. PCT/KR2004/000473 | International filing date(day/month/year) 05 MARCH 2004 (05.03.2004) | Priority date (day/month/year) 05 MARCH 2003 (05.03.2003) |
| International Patent Classification (IPC) or national classification and IPC IPC7 H04M 1/23 | | |
| Applicant SOHNG, Woo chan | | |

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets; including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability



☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

| | |
|--|---|
| Date of submission of the demand 23 APRIL 2004 (23.04.2004) | Date of completion of this report 28 FEBRUARY 2005 (28.02.2005) |
| Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140 | Authorized officer SHIN, Jun Ho Telephone No. 82-42-481-8129  |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000473

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/000473

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|--------|-----|
| Novelty (N) | Claims | 1 - 19 | YES |
| | Claims | NONE | NO |
| Inventive step (IS) | Claims | 1 - 19 | YES |
| | Claims | NONE | NO |
| Industrial applicability (IA) | Claims | 1 - 19 | YES |
| | Claims | NONE | NO |

2. Citations and explanations (Rule 70.7)

1. NOVELTY AND INVENTIVE STEP

Reference is made to the following documents:

- D1 : KR 1999-6320 A (DANAL CO., LTD.) 25 JANUARY 1999
D2 : KR 2001-1525 A (BYUNG-YONG, LIM) 5 JANUARY 2001
D3 : US 6031471 A (TRIMBLE NAVIGATION LIMITED) 29 FEBRUARY 2000

Claim 1-19 discloses an apparatus for inputting English alphabet using a reduced keypad characterized in the keypad having five buttons of one central button, a left top button, a left bottom button, a right top button, a right bottom button arranged at each vertex of a square shape and around the central button.

D1 discloses a keypad input system by pushing the keypad buttons according to the shape of a character. In D1, all number keys in the keypad are used.

D2 discloses An apparatus for inputting Hangul(Korean alphabet) of a portable electronic apparatus to deduce visible formal characteristics of consonants and vowels in a keypad to configure the Hangul with minimal phoneme units, so as to make one key have one character to make a user easily input the Hangul. In D2, all number keys in the keypad are used too.

On the other hand, D3 discloses a graphical machine-user interface including a processor connected to a display screen to generate a screen display of individual items in groups together with the selector indication. In D3, five pushbuttons indicating four directions and middle position are recursively used to reduce a large two-dimensional matrix of item choices presented on the display to some subset.

The prior arts do not disclose the subject matter of claims 1-19. Even though the prior arts may be combined, it is not obvious to a skilled person in a CDMA communication to derive the subject matter of claims 1-19 from the prior arts.

Therefore, the subject matter of claims 1-19 is considered to meet the requirement of PCT Article 33(2) and 33(3) in respect of novelty and inventive step.

2. INDUSTRIAL APPLICABILITY

The subject matter of claims 1-19 is considered to meet the requirement of PCT Article 33(4) in respect of industrial applicability.